

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

APPLICATION TO TRANSFER PERMIT

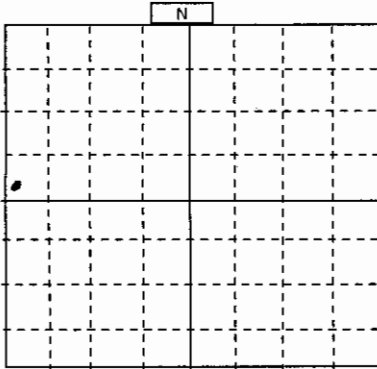
NAME & ADDRESS OF EXISTING PERMITTEE

Kalkaska Oilfield Services
4030 Columbus Drive, NE
Kalkaska, Michigan 49646

NAME & ADDRESS OF SURFACE OWNER

Kalkaska Oilfield Services
4030 Columbus Drive, NE
Kalkaska, Michigan 49646

Locate Well and Outline Unit on
Section Plat - 640 Acres



STATE

Michigan

COUNTY

Kalkaska

PERMIT NUMBER

MI-079-2D-C008

SURFACE LOCATION DESCRIPTION

SW 1/4 of SW 1/4 of NW 1/4 of 1/4 of Section 9 Township 28N Range 7W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location

460 ft. From (N/S)

South Line of Quarter Section

And

460 ft. From (E/W)

West Line of Quarter Section

WELL ACTIVITY

- ☐ Class I
☒ Class II
☒ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ Class III
☐ Other

WELL STATUS

- ☒ Operating
☐ Modification/Conversion
☐ Proposed

TYPE OF PERMIT

- ☒ Individual
☐ Area
 Number of Wells ☐

Lease Number

Simpson

Well Number

1-9

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)

S.W.D. Speciaties, LLC
4030 Columer Drive, NE
Kalkaska, Michigan 49646

NAME AND ADDRESS OF NEW OPERATOR

S.W.D. Speciaties, LLC
4030 Columer Drive, NE
Kalkaska, Michigan 49646

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director

CERTIFICATION

I certify under the penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref.40 CFR 144.32)

NAME AND OFFICIAL TITLE

Rick Root Yard Manager

SIGNATURE

Rick Root

DATE SIGNED

3-2-2006

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

PLUGGING AND ABANDONMENT PLAN**Name and Address of Facility**

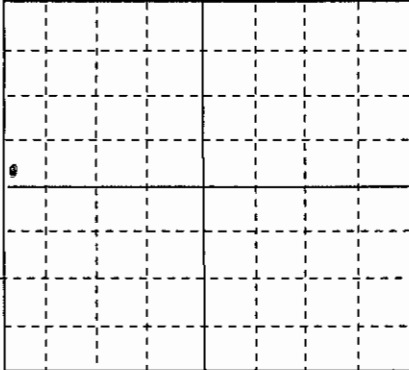
SIMPSON 1-9 SWD
8588 SMITH ROAD NE
ALDEN MI 49612

Name and Address of Owner/Operator

S.W.D SPECIALTIES, LLC
4030 COLUMBUS DR
KALKASKA MI 49646

Locate Well and Outline Unit on
Section Plat - 640 Acres

N



State

Michigan

County

KALKASKA

Permit Number

MI-079-2D-C008

Surface Location Description

SW SW NW Section 9 twp 28n Range 7W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 460 ft. From (N/S) South Line of Quarter Section

And 460 ft. From (E/W) West Line of Quarter Section

TYPE OF AUTHORIZATION☒ Individual Permit☐ Area Permit☐ Rule

Number of Wells 1

Lease Name Simpson

**WELL
ACTIVITY**☐ Class I☐ Hazardous☐ Nonhazardous☒ Class II☒ Brine Disposal☐ Enhanced Recovery☐ Hydrocarbon Storage☐ Class III

Well Number 1-9 swd

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
16"	65#	80'	80'	driver
11 3/4"	42#	770'	770'	cir to sfc
8 5/8"	24#	1518'	1518'	250 sx

METHOD OF EMPLACEMENT OF CEMENT PLUGS☒ Balance Method☐ Dump Bailer Method☐ Two Plug Method☐ Other**CEMENT TO PLUG AND ABANDON DATA:**

	Plug #1	Plug #2	Plug #3	Plug #4	Plug #5	Plug #6	Plug #7
Size of Hole or Pipe in Which Plug Will Be Placed (inches)	8 5/8	8 5/8					
Depth to Bottom of Tubing or Drill Pipe (ft)	1452'	522'					
Sacks of Cement To Be Used (each plug)	76	158					
Slurry Volume To Be Pumped (cu. Ft.)	90	186					
Calculated Top of Plug (ft.)	1202'	3'					
Measured Top of Plug (if tagged, ft.)							
Slurry Weight (Lb./Gal.)	15.6	15.6					
Type of Cement or Other Material (Class III)	A	A					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
1510'	2050'		
2328'	2488'		

Estimated Cost to Plug Wells

\$4,500

CERTIFICATION

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Name and Official Title

(Please type or print)

Rick Root Yard Manager

Signature

Rick Root

Date Signed

3-2-2006

**REQUEST FOR TRANSFER OF PERMIT**


Required by authority of Part 615 Supervisor of Wells or Part 625 Mineral Wells, Act 451 PA 1994 as amended. Non-submission and/or falsification of this information may result in fines and/or imprisonment.

☒ Part 615 Oil/Gas Well☐ Part 625 Mineral Well


Permit number 32660	Well type Brine Disposal	Current true vertical depth 6169'
Well name and number Simpson #1-9		
Surface location SW 1/4 SW 1/4 NW 1/4 Section 9 T 28N R 7W		
Township Rapid River		County Kalkaska

NOTE: Eligibility for permits is conditioned upon compliance with the statutes, rules and orders of the Department of Environmental Quality. Permits shall not be transferred to persons not in compliance. A permit for a well shall not be transferred if the permittee is under notice because of unsatisfactory conditions at the well site until compliance is achieved. The acquiring permittee shall attach a current Organization Report (EQP 7200-13)
This permit does not convey property rights in either real estate or material nor does it authorize any injury to private property or invasion of private or public rights nor does it waive the necessity of seeking federal and local permits or complying with other state statutes.

TRANSFER OF A PERMIT FROM:

Name(s) of Selling Permittee(s) Kalkaska Oil Field Services		Fed. I.D.# or S.S.# 38-308-3604	
Address: Number and Street, City or Town, State, ZIP Code Telephone 4030 Columbus Drive, NE, PO Box 1090, Kalkaska, MI 49646		616-258-6026	
All permits rights and responsibilities are discharged by:			
Kalkaska Oil Field Services Permittee	Rick Root Authorized representative name	 Signature	12-13-05 Date
Permittee	Authorized representative name	Signature	Date
Permittee	Authorized representative name	Signature	Date

TRANSFER OF A PERMIT TO:

Name(s) of Acquiring Permittee(s): SWD Specialties, LLC		Fed. I.D.# or S.S.# EIN 20-3310760	
Address: Number and Street, City or Town, State, ZIP Code 4030 Columbus Drive, Kalkaska, MI 49646 - Bus: 231-258-9134		Telephone	
(We are) (I am) an owner or authorized representative of the owner of the well under this permit and assume full responsibility for the drilling, operation, and abandonment in conformity with the law, regulations and orders.			
BOND: <input checked="" type="checkbox"/> Single Well <input checked="" type="checkbox"/> Attached Surety or Bank <u>Northwestern Bank</u> <input type="checkbox"/> Blanket <input type="checkbox"/> On File Bond Number <u>LOC #0511152</u> Amount <u>\$25,000</u> <input type="checkbox"/> Statement of Financial Responsibility			
All permittee rights and responsibilities are assumed by:			
SWD Specialties, LLC Permittee	George Molski Authorized representative name	 Signature	11/23/05 Date
Permittee	Authorized representative name	Signature	Date
Permittee	Authorized representative name	Signature	Date

FOR DEPARTMENT OF ENVIRONMENTAL QUALITY USE ONLY

Approved _____ Signature _____ Date _____	Distribution by DEQ <input type="checkbox"/> Lansing <input type="checkbox"/> Selling Owner <input type="checkbox"/> Field <input type="checkbox"/> Acquiring Owner
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STATE OF MICHIGAN
REQUEST FOR TRANSFER OF A PERMIT

SUBMIT ORIGINAL & 3 COPIES TO: Department of Natural Resources
Geological Survey Division
Box 30028
Lansing, Michigan 48909

Filing for change of ownership of well is required in accordance with ☒ Act 61, P.A. 1939 and ☒ Act 315, P.A. 1989, as amended, and Administrative Rules promulgated thereunder.

PERMIT NO. 32660 Act 61	WELL TYPE
365-905-840* Act 315	Disposal
FIELD NAME Rapid River	
WELL NAME AND NUMBER Simpson #1-9	
WELL LOCATION SW 1/4 SW 1/4 NW 1/4 SECTION 9 T. 28N R. 7W	
TOWNSHIP Rapid River	COUNTY Kalkaska

TRANSFER OF A PERMIT FROM:

NAME(S) OF SELLING OWNER(S) W & J Enterprises, Inc.		FED. I.D.# OR S.S.# Fed. I.D.#382836574
ADDRESS: Number and Street — City or Town — State — Zip Code — Telephone P.O. Box 427, Kalkaska, MI 49646		
All operating rights are discharged by:		
Owner(s)	Representative(s)	Signature(s) Date(s)
	W & J Enterprises, Inc.	12/14/92
	LaWenda Hoyerheide, President	LaWenda N Hoyerheide 12/14/92

ELIGIBILITY FOR PERMITS IS CONDITIONED UPON COMPLIANCE WITH THE STATUTES, RULES AND ORDERS OF THE DEPARTMENT OF NATURAL RESOURCES. PERMITS WILL NOT BE GRANTED TO PERSONS NOT IN COMPLIANCE.

NON-SUBMISSION AND/OR FALSIFICATION OF THIS INFORMATION MAY RESULT IN FINES AND/OR IMPRISONMENT.

TRANSFER OF A PERMIT TO:

NAME(S) OF ACQUIRING OWNER(S) Kalkaska Oilfield Services, Inc.		FED. I.D.# OR S.S.# 38-3083604
ADDRESS: Number and Street — City or Town — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI 49646 (616) 258-9134		
(We) (I) have acquired the well under this permit and assume full responsibility for the drilling, operation, and abandonment in conformity with the law, regulations and orders.		
SURETY BOND:	<input type="checkbox"/> SINGLE WELL <input checked="" type="checkbox"/> ATTACHED <input checked="" type="checkbox"/> BLANKET <input type="checkbox"/> ON FILE	BONDING CO. First of America Bank - Northern Mich. BOND NUMBER 236
All operating rights and responsibilities are assumed by		
Owner(s)	Representative(s)	Signature(s) Date(s)
	Kalkaska Oilfield Services, Inc.	12/14/92
	Dennis Hoyerheide, President	Dennis Hoyerheide 12/14/92

* CONVERSION OF PN# 32660, Act 61

FOR DEPARTMENT OF NATURAL RESOURCES USE ONLY & Bonding Unit

APPROVED David D Davis Signature	4/24/95 Date	DISTRIBUTION BY DNR <input type="checkbox"/> Lansing <input checked="" type="checkbox"/> Acquiring Owner <input type="checkbox"/> Selling Owner <input type="checkbox"/> Field
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

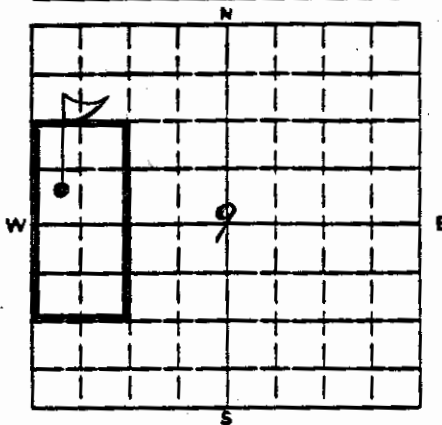
APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE

W&J Enterprises, Inc.
P.O.Box 427
Kalkaska, MI 49646

NAME AND ADDRESS OF SURFACE OWNER

Kalkaska Oilfield Services, Inc.
418 South Maple Street
Kalkaska, MI 49646

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 840 ACRES

STATE

MI

COUNTY

Kalkaska

PERMIT NUMBER

MI-079-2D-0008

SURFACE LOCATION DESCRIPTION

SW ¼ OF SW ¼ OF NW ¼ SECTION 9 TOWNSHIP 28N RANGE 7W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 460 ft from (N/S) S Line of quarter section
and 460 ft from (E/W) W Line of quarter section

WELL ACTIVITY

- ☐ Class I
☒ Class II
☒ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ Class III
☐ Other

WELL STATUS

- ☐ Operating
☐ Modification/Conversion
☐ Proposed

TYPE OF PERMIT

- ☐ Individual
☐ Area
Number of Wells _____

Lease Name Simpson

Well Number #1-9

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)

Kalkaska Oilfield Services, Inc.
418 South Maple Street
Kalkaska, MI 49646

NAME AND ADDRESS OF NEW OPERATOR

Kalkaska Oilfield Services, Inc.
418 South Maple Street
Kalkaska, MI 49646

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The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)
Lawenda Hegerheide, President

W&J Enterprises, Inc.

SIGNATURE

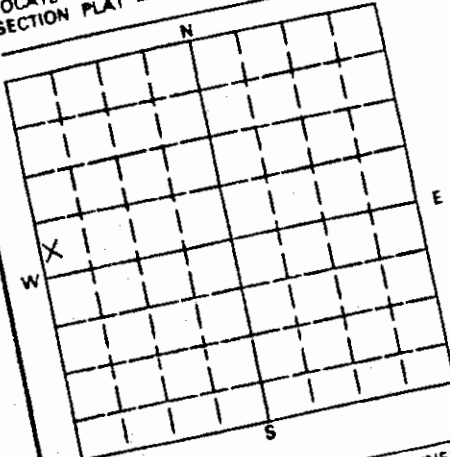
Lawenda Hegerheide

DATE SIGNED

12/14/92

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

APPLICATION TO TRANSFER OWNERSHIP

NAME AND ADDRESS OF EXISTING PERMITTEE
Wolverine Gas and Oil Co., Inc.
One Riverfront Plaza
Grand Rapids, MI 49503-2616NAME AND ADDRESS OF SURFACE OWNER
Mayfield Environmental Corp.
One Riverfront Plaza
Grand Rapids, MI 49503-2616PERMIT NUMBER
32660LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT - 640 ACRES

STATE MI COUNTY Kalkaska

SURFACE LOCATION DESCRIPTION
SW 1/4 OF SW 1/4 OF NW 1/4 SECTION 9

TOWNSHIP 28N RANGE 7W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 460 ft. from (N/S) S Line of quarter section
and 460 ft. from (E/W) W Line of quarter section079-20-0008
TYPE OF PERMIT

- WELL STATUS
- ☒ Operating
☐ Modification/Conversion
☐ Proposed
- WELL ACTIVITY
- ☐ Class I
☐ Class II
☒ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ Class III
☐ Other

☒ Individual
☐ Area
Number of Wells

Lease Name Simpson et al

Well Number 1-9

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)
W & J Enterprises, Inc.
PO Box 427
Kalkaska, MI 49646NAME AND ADDRESS OF NEW OPERATOR
W & J Enterprises, Inc.
PO Box 427
Kalkaska, MI 49646

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, other adequate assurance, such as financial statements or other materials acceptable to the director.

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MAR 24 1989

LIC SECTION
EPA - REGION V

CERTIFICATION

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NAME AND OFFICIAL TITLE (Please type or print)
S. J. Jansma, Jr., PresidentSIGNATURE
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



APPLICATION TO TRANSFER PERMIT

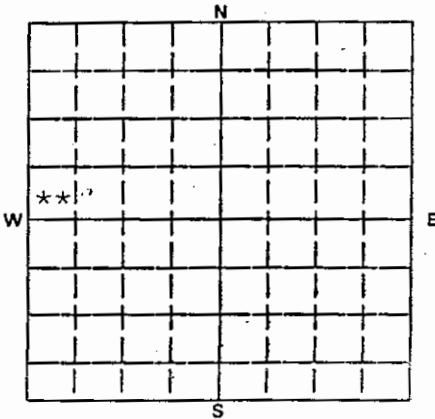
NAME AND ADDRESS OF EXISTING PERMITTEE

Mayfield Environmental Production, Inc.
One Riverfront Plaza 55 Campau, N. W.
Grand Rapids, Michigan 49503

NAME AND ADDRESS OF SURFACE OWNER

Mayfield Environmental Corp.
One Riverfront Plaza N. W.
Grand Rapids, Michigan 49503

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 640 ACRES



STATE

COUNTY

Mi. Kalkaska

PERMIT NUMBER

32660

SURFACE LOCATION DESCRIPTION

SW 1/4 OF SW 1/4 OF NW 1/4 SECTION 9 TOWNSHIP 28N RANGE 7W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location 460 ft. from (N/S) S Line of quarter section

and 460 ft. from (E/W) W Line of quarter section

WELL ACTIVITY

WELL STATUS

TYPE OF PERMIT

☐ Class I

☒ Operating

☒ Individual

☒ Class II

☐ Modification/Conversion

☐ Area

☒ Brine Disposal

☐ Proposed

Number of Wells 1

☐ Enhanced Recovery

☐ Hydrocarbon Storage

☐ Class III

☐ Other

Lease Name

Simpson

Well Number

1-9

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)

W & J Enterprises
P. O. Box 427
Kalkaska, Mi. 49646

NAME AND ADDRESS OF NEW OPERATOR

W & J Enterprises
P. O. Box 427
Kalkaska, Mi. 49646

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

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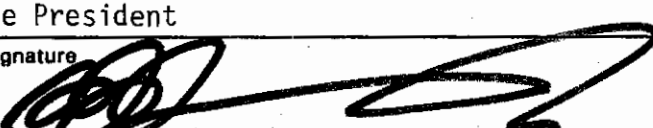
NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

Dennis Hogerheide Vice President

Dec. 8, 1988

Form 4 UIC	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PERMIT APPLICATION <i>(Collected under the authority of the Safe Drinking Water Act, Sections 1421, 1422, 40 CFR 144)</i>	I. EPA ID NUMBER <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	
READ ATTACHED INSTRUCTIONS BEFORE STARTING FOR OFFICIAL USE ONLY			
Application approved mo day year	Date Received mo day year	Permit/Well Number NI-079-20-0008	Comments
II. FACILITY NAME AND ADDRESS		III. OWNER/OPERATOR AND ADDRESS	
Facility Name Simpson #1-9 Well		Owner/Operator Name Wolverine Gas & Oil Company, Inc.	
Street Address Kalkaska County		Street Address One Riverfront Plaza	
City Grand Rapids	State MI	ZIP Code	City Grand Rapids
		State MI	ZIP Code 49503-2613
IV. OWNERSHIP STATUS (Mark 'x')		V. SIC CODES	
<input type="checkbox"/> A. Federal <input type="checkbox"/> B. State <input checked="" type="checkbox"/> C. Private <input type="checkbox"/> D. Public <input type="checkbox"/> E. Other (Explain)		1300 RECEIVED	
VI. WELL STATUS (Mark 'x')			
<input checked="" type="checkbox"/> A. Operating Date Started mo day year 6 5 84		<input type="checkbox"/> B. Modification/Conversion <input type="checkbox"/> C. Proposed APR 21 1987 UIC SECTION	
VII. TYPE OF PERMIT REQUESTED (Mark 'x' and specify if required)			
<input checked="" type="checkbox"/> A. Individual <input type="checkbox"/> B. Area		Number of Existing wells	Number of Proposed wells
Name(s) of field(s) or project(s) Kalkaska 9 Field			
VIII. CLASS AND TYPE OF WELL (see reverse)			
A. Class(es) (enter code(s)) II	B. Type(s) (enter code(s)) D	C. If class is "other" or type is code 'x,' explain	D. Number of wells per type (if area permit)
IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT			
A. Latitude Deg Min Sec 1 1 1		B. Longitude Deg Min Sec 84 1 1	
Township and Range Twp Range Sec 1/4 Sec 28N 7W 9 NW		Feet from Line 460 S 460 W	
		X. INDIAN LANDS (Mark 'x') <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
XI. ATTACHMENTS			
(Complete the following questions on a separate sheet(s) and number accordingly; see instructions) FOR CLASSES I, II, III (and other classes) complete and submit on separate sheet(s) Attachments A — U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application:			
XII. CERTIFICATION			
I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)			
A. Name and Title (Type or Print) S. J. Jansma, Jr. Vice President			B. Phone No. (Area Code and No.) 616-458-1150
C. Signature 			D. Date Signed 4-2-87

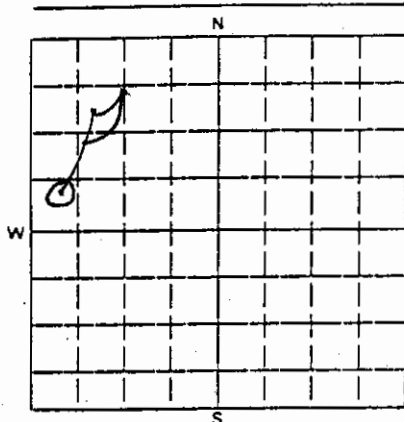


PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY

Simpson L9SWD
8588 Smith Rd NE
Alden, MI 49612

NAME AND ADDRESS OF OWNER/OPERATOR

KAIKASKA Oilfield Services
PO Box 1090
KAIKASKA MI 49646LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT - 640 ACRES

STATE

MI

COUNTY

KAIKASKA

PERMIT NUMBER

MI-079-2D-C008

SURFACE LOCATION DESCRIPTION

SW 1/4 OF SW 1/4 OF NW 1/4 SECTION 9 TOWNSHIP 28N RANGE 7W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location 460 ft. from (N/S) S Line of quarter section

and 460 ft. from (E/W) W Line of quarter section

TYPE OF AUTHORIZATION

- ☒ Individual Permit
☐ Area Permit
☐ Rul.

Number of Wells L

WELL ACTIVITY

- ☐ CLASS I
☒ CLASS II
☒ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name Simpson

Well Number 1-9

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
16"	65'	80'	80'	Driven
11 3/4"	42	770'	770'	Gr to 54c
8 7/8"	24	1518'	1518'	250 5x

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8 5/8	8 5/8					
Depth to Bottom of Tubing or Drill Pipe (ft.)	1452'	522'					
Sacks of Cement To Be Used (each plug)	76	158					
Slurry Volume To Be Pumped (cu. ft.)	90	186					
Calculated Top of Plug (ft.)	1202'	3'					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	Class A	Class A					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
1510'	2050'		
2328'	2488'		

Estimated Cost to Plug Wells

\$4500.00

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)

David L. Stoops Disp Mgr.

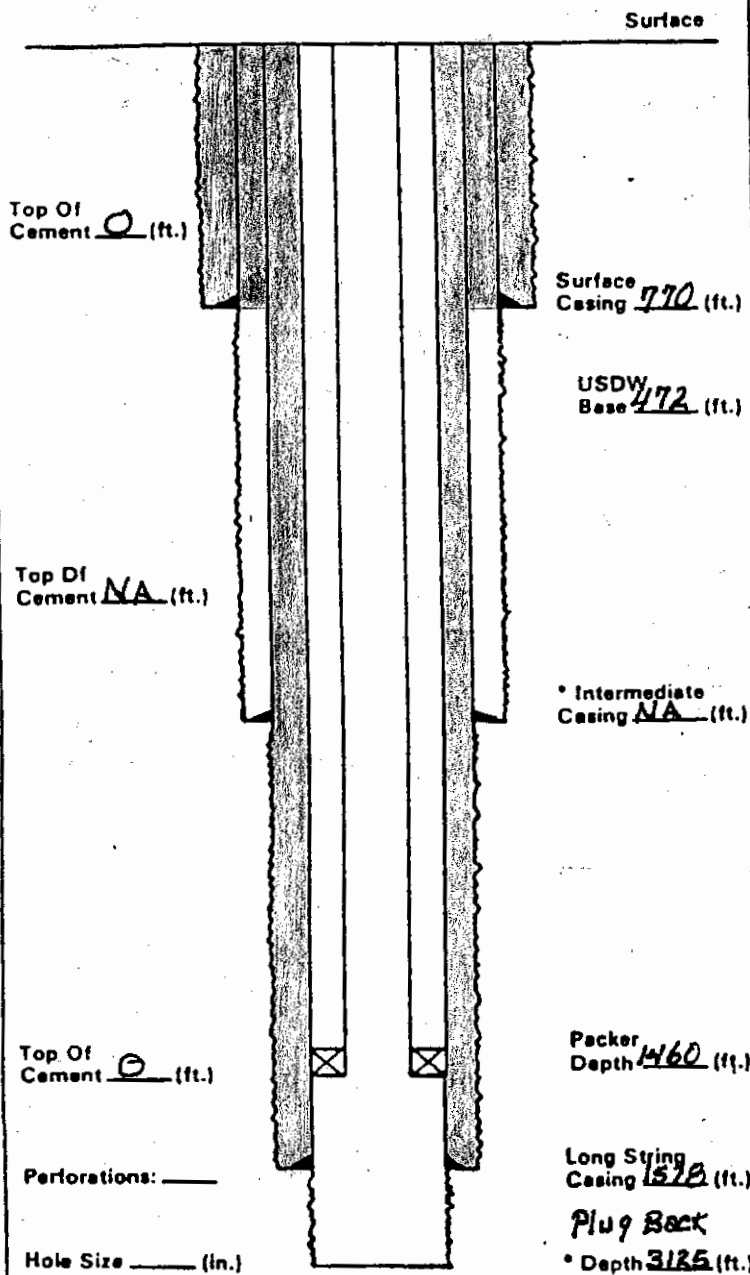
SIGNATURE

D L Stoops

DATE SIGNED

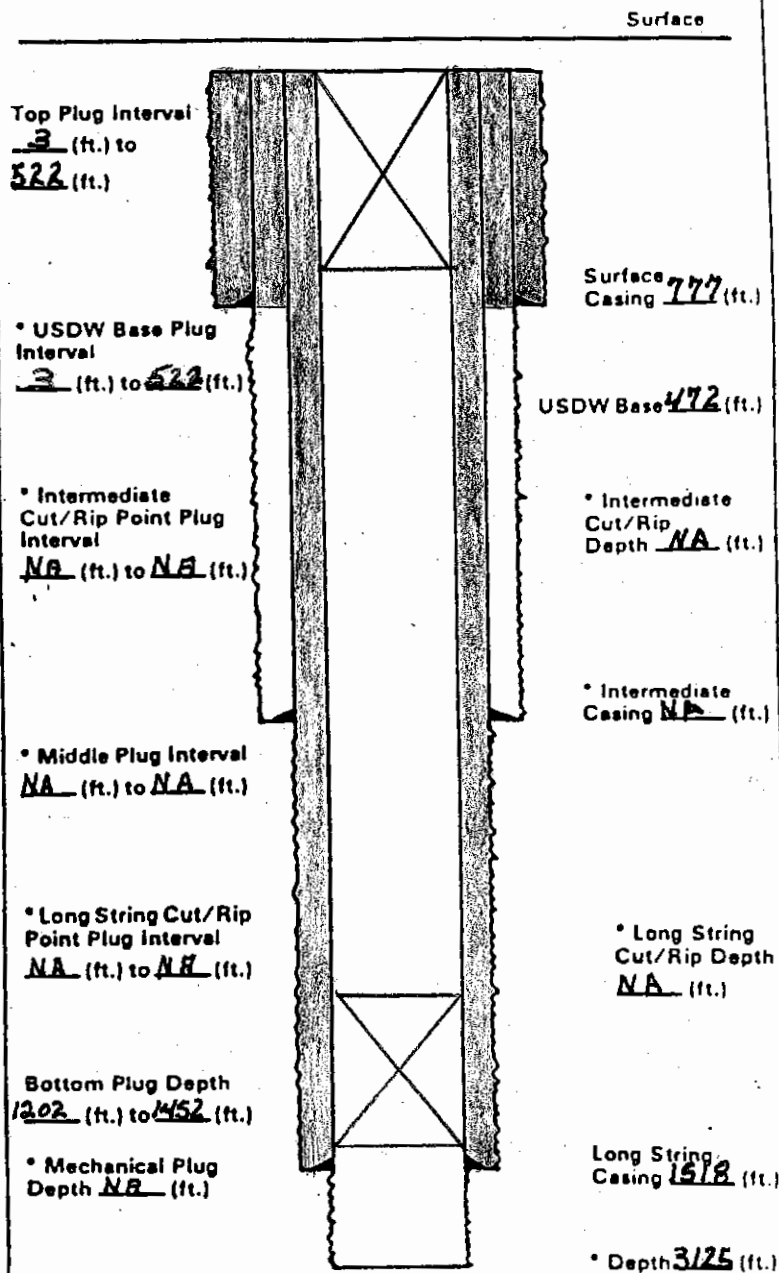
02-25-99

ORIGINAL WELL CONSTRUCTION DURING OPERATION



** Add Any Additional Information
* May Not Apply

PLUGGING AND ABANDONMENT CONSTRUCTION



** Add Any Additional Information
* May Not Apply

LIST OF ALL OPEN AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED

Specify Open Hole/Perforations/Varied Casing	From	To	Formation Name
OPEN HOLE	1510'	2050'	Traverse Limestone
Perforations	2328	2488	Dundee Limestone

A. Area of Review

The area of review shall be a fixed radius of no less than 1/4 mile from the well bore.

B. Does not apply to existing Class II wells.

C. Does not apply to existing Class II wells.

D. Does not apply to Class II wells.

E. Name and Depth of USDWs

Underground sources of drinking water in the area of review occur in the glacial drift. The base of the drift is at 472' at the well location. The drift is underlain by the Mississippian Coldwater and Sunbury shales. This well is outside the updip edge of the Mississippian aquifer system, and strata lower than the Mississippian contain water with more than 10,000 ppm total dissolved solids and therefore do not qualify as USDWs (ref: Hydrogeologic Atlas of Michigan, Western Michigan University, 1981).

F. Does not apply to Class II wells.

G. Geologic Data on Injection and Confining Zones

Injection Zone:	Traverse and Dundee
Lithology:	Limestone
Thickness:	1516'-2467' (951')

Upper Confining Zone:	Coldwater, Sunbury, Ellsworth and Antrim
Lithology:	Shale
Thickness:	472'-1452' (980')

Lower Confining Zone:	Detroit River, Amherstburg Formation
Lithology:	Carbonaceous Limestone
Thickness:	2467'-3606' (1139')

No fracture pressure data is available for this well. The maximum allowable wellhead injection pressure calculated using the formula presented in 40 CFR Section 147.1153 is $(0.8 - 0.433(1.28))(1510') = 371$ psi.

H. Operating Data

Average Injection Rate:	200 bpd
Maximum Injection Rate:	500 bpd
Average Injection Pressure:	Well normally takes fluid on gravity. Pump used on standby, 50 psig operating pressure.
Maximum Injection Pressure:	Maximum pump discharge = 250 psig Maximum allowable = 356 psig
Source of Injection Fluid:	Various Formations
Injection Fluid Analysis:	See report in Appendix
Annulus Fluid Composition:	10 gallons of Dowell A200.2 corrosion inhibitor in 83 bbl Fresh Water

I. Does not apply to existing Class II wells.

J. Stimulation Program

The well was acidized 6/5/84 by spotting 600 gallons 28% HCl from 2450' to 2215' and 1100 gallons 28% HCl from 1920' to 1700'. Set packer at 1500'. Perforated with 1 spf from 2328' to 2488'. Pumped away spot acid at 6 BPM with 600 psi maximum surface pressure. Swabbed back to clean up bottom perforations.

K. Injection Procedures

The well is equipped with a 3" basket strainer located between the feed tank and the pump suction. A Kerr KM-3250 triplex pump (25 gpm capacity) is installed for standby use to speed injection, but is normally not required. Injection fluids are collected in four 400 bbl, 12' diameter by 20' high steel tanks before being gravity fed or pumped to the well.

L. Construction Procedures

The well was drilled 10/14/78 to 10/27/78 with rotary tools to a total depth of 6169'. Set 80' of 16", 55#/ft drive pipe; 770' of 11 3/4", 38#/ft surface casing in 14 3/4" hole with 500 sacks cement circulated to surface; 3284' of 8 5/8", 24#/ft intermediate casing in 10 5/8" hole with 750 sacks cement. Plugged and temporarily abandoned as dry hole 10/29/78.

Converted to salt water disposal well 6/5/84. Cut and pulled 8 5/8" casing at 2050'. Ran 1510' of 8 5/8", 24#/ft casing cemented with 150 sacks 65/35 poz and 100 sacks Class A. Returned 6 bbls cement to surface. Perforated with 1 spf from 2328' to 2488' and acidized per Attachment J. Also, open hole completion from 1510' to 2280'.

Ran 1425' of 2 3/8" steel tubing and set Aeroset tension packer at 1425'.

A copy of the Schlumberger compensated neutron log run when the well was originally drilled is contained in the Appendix.

M. Construction Details

A well schematic drawing is contained on the following page.

N. Does not apply to Class II wells.

O. Plans for Well Failures

If a well failure is detected, the well will be shut-in until the faulty equipment is replaced and the well returned to a safe operating condition. If the failure and operation pose no environmental hazard, then nothing further will be done.

In the case of casing leaks or some other major failure, the well will be shut-in and the Department of Natural Resources and EPA will be contacted. The well will remain shut-in until the condition is corrected. This correction will involve squeezing off the leak with cement or replacing the bad casing. The well will not be returned to active status until its integrity has been determined. Any fluid produced during injection well shut-in will either be stored on site or removed by a commercial disposer depending on the amount produced.

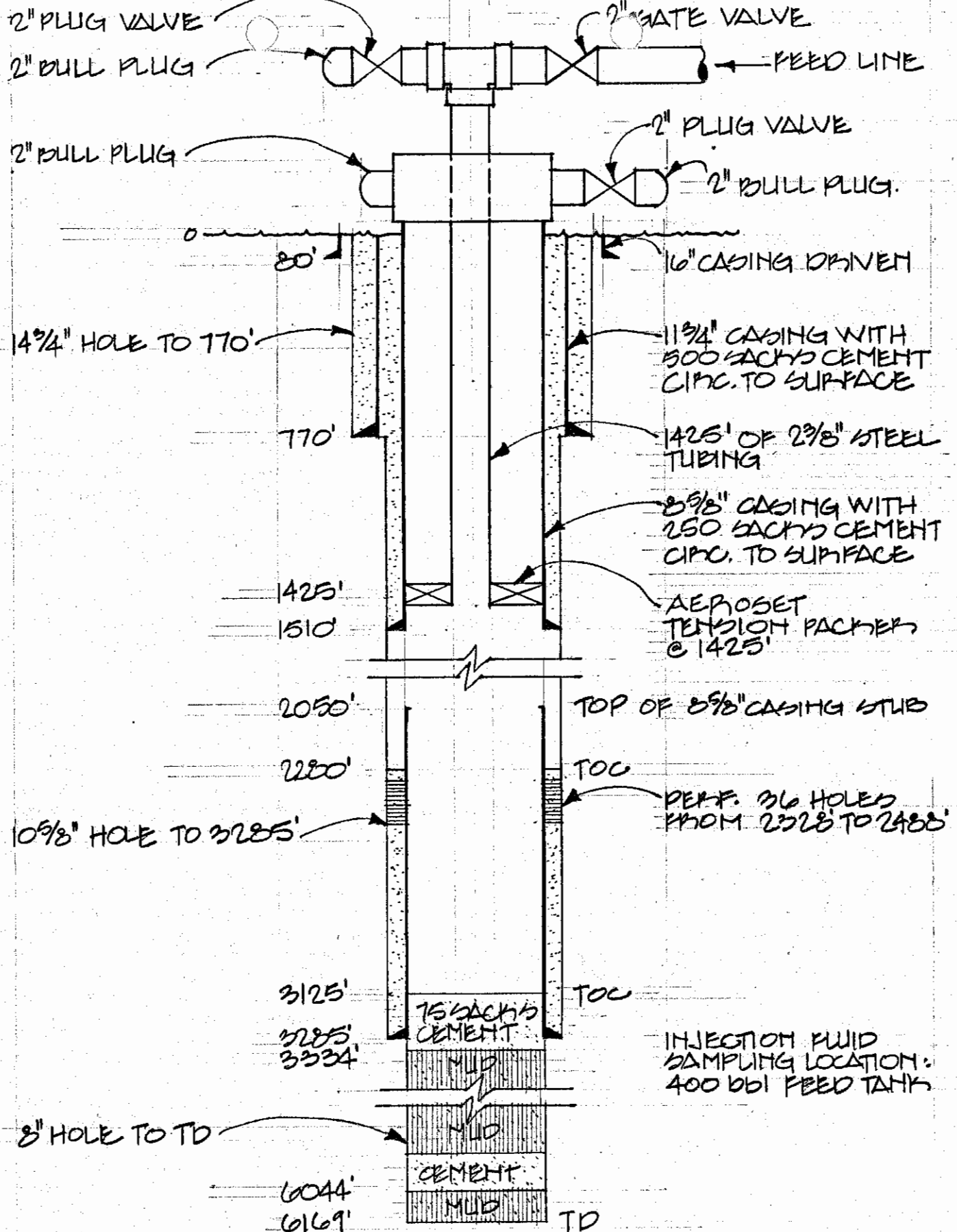
P. Monitoring Program

Injected fluids will be analyzed by an independent laboratory each time changes are made in the injected fluid.

The injection pressure, flow rate, and cumulative volume will be observed weekly, recorded monthly, and reported annually using OMB Form 2000-0042, the Annual Disposal/Injection Well Monitoring Report.

Q. Plugging and Abandonment Procedures

The EPA Plugging and Abandonment Plan is attached, with the plugging procedure and cost estimate contained on the reverse side of the form.



SIMPSON #1-9 WELL
STATE PERMIT #32660

ATTACHMENT M - WELL SCHEMATIC

R. Necessary Resources for Plugging and Abandonment

A copy of the State of Michigan bond and letter requesting EPA approval of the bond are attached.

S. Aquifer Exemptions

Not applicable.

T. Existing EPA Permits

None.

U. Description of Business

Wolverine Gas & Oil Company, Inc. is engaged in the exploration and production of crude oil and natural gas.

Appendix

Contents

Injection Fluid Analysis
Copy of Schlumberger CN Log
Plugging & Abandonment Plan
State of Michigan Bond
List of Landowners of Record in Area of Review